



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 22, 2017

Angie Custer, Regulatory Affairs Specialist
Kop-Coat, Inc.
3040 William Pitt Way
Pittsburgh, PA 15328

Subject: Notification per PRN 98-10 – Revision of Disclaimer verbiage and addition of Safety Data Sheet
Product Name: Workhorse Saptain and Mold Control Product
EPA Registration Number: 92617-17
Application Date: 05-24-17
Decision Number: 530095

Dear Ms. Custer:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Sandra O’Neill at 703-347-0141 or via email at oneill.sandra@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Stacey Grigsby".

Stacey Grigsby, Acting Product Manager, 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL PRECAUTIONS AND RESTRICTIONS

FOR INDUSTRIAL USE

DILUTE BEFORE USING

CONSULT SAFETY DATA SHEET (SDS) BEFORE USING

Do not apply this product in a way that will contact workers or other person, either directly or through drift. Only protected handlers may be in the area during application.

Wear synthetic rubber gloves or plastic coated gloves in handling solutions and freshly treated lumber. Treated sawdust and other wood wastes should be disposed of properly and should not be used as mulch where it will come into contact with useful living plants. Care should be taken to prevent drip or spray from contacting ornamental shrubs, trees, grass, and other desirable vegetation.

GENERAL INFORMATION

Description: Workhorse® Sapstain and Mold Control Product is a liquid concentrate containing an effective combination of fungicides for the control of sapstain and surface staining fungi that cause discoloration and staining of freshly sawn lumber. Workhorse® Sapstain and Mold Control Product is an aqueous solution which may be applied to dimensional lumber, logs, plywood and particle board to prevent surface mold growth.

Dilution Ratio: Workhorse® Sapstain and Mold Control Product is dilutable with water. For lumber in dip systems, use 1 gallon of concentrate per 50 gallons to 200 gallons of water to protect against staining organisms (at 200:1 dilution, fungal resistance is up to 3 months on softwoods). For spray systems use 1 gallon of concentrate per 5 to 25 gallons of water. Contact Kop-Coat, Inc. for recommendations and further information.

Application Instructions: Flood spray or dip the freshly sawn clean lumber to be treated in Workhorse® Sapstain and Mold Control Product solution within 24 hours after cutting. A dip of 15 seconds or more is sufficient. If not treated within 24 hours, stain may occur.

Lumber should be totally immersed or sprayed to ensure treatment. Tanks should be covered by a roof to prevent the addition of rain water and consequent dilution of the solution. Vats and spray equipment should be cleaned regularly to remove sawdust and other debris. Freshly treated lumber should not be exposed to water. Store in protected area from rain and stack properly for best results.

Clean Up: Use water to clean immersion tanks, spray equipment and surrounding area. Soapy water may be required to remove Workhorse® Sapstain and Mold Control Product from floors and equipment.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: Store in a closed, properly labeled container in a cool place. If static generating conditions exist, provide necessary grounding and bonding. Keep containers closed when not in use.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available.



Workhorse®

Sapstain and Mold Control Product

US Patent Number 6,375,727 and 7,056,919. Additional Patents Pending

Aids in the control of blue stain, mold and decay of freshly cut lumber, dry lumber and other wood based products when properly used. Effective on softwoods including Douglas fir, White fir, Spruce, Hemlock, the Pines including both the Southern and Western Yellow Pines, Eastern and Western White Pines and many of the hardwoods.

KEEP OUT OF REACH OF CHILDREN

DANGER

EPA Reg. No. 92617-17
EPA Est. No. 60061-MO-1

Read **Disclaimer** on side panel before buying or using. If such terms are not acceptable, return at once unopened.

ACTIVE INGREDIENTS

Difludioxymethyl-para-Tolyl sulfone
(Propiconazole) 1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]-methyl-1H-1,2,4-triazole
(IPBC) 3-Iodo-2-Propynyl Butyl Carbamate

OTHER INGREDIENTS

TOTAL

0.30%
1.10%
97.50%
100.00%

FIRST AID	
IF IN EYES	<ul style="list-style-type: none">Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.Call poison control center or doctor for treatment advice.
IF ON SKIN OR ON CLOTHING	<ul style="list-style-type: none">Take off contaminated clothing.Rinse skin immediately with plenty of water for 15 to 20 minutes.Call poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none">Call poison control center or doctor immediately for treatment advice.Have person sip a glass of water if able to swallow.Do not induce vomiting unless told to do so by a poison control center or doctor.Do not give anything by mouth to an unconscious person.
IF INHALED	<ul style="list-style-type: none">Move person to fresh air.If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBERS	<ul style="list-style-type: none">Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 800-548-0489 for emergency medical treatment information.Transportation emergency contact 800-424-9300.
NOTE TO PHYSICIAN	<ul style="list-style-type: none">Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive to eyes and skin.

Kop-Coat, Inc.

Protection Products Division

5137 Southwest Avenue, St. Louis MO 63110

314-772-2200

Net Contents

Gallons

NOTIFICATION

92617-17

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

06/22/2017

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORRSIVE. Causes skin burns. Causes irreversible eye damage. Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist. Wear protective eyewear (goggles or face shield), coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and chemical resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers should wear:

- Coveralls over long-sleeved shirt and long pants.
- Chemical-resistant footwear plus socks.
- Goggles or safety glasses with face shield.
- Chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber and viton).
- Respirator with an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

USER SAFETY REQUIREMENTS

- Follow manufactures instructions for clean/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water. Do not contaminate water when disposing equipment wastewaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of Environmental Protection Agency.

Until product has dried, anisapstain treated lumber must be stored under cover, indoors, or at least 100 feet from any pond, lake, stream, wetland, or river to prevent possible runoff of the product into the waterway. Treated lumber stored within 100 feet of a pond, lake stream, or river must be either covered with plastic or surrounded by a berm to prevent surface water runoff into the nearby waterway. If a berm or curb is used around the site, it should consist of impermeable material (clay, asphalt, concrete) and be of sufficient height to prevent runoff during heavy rainfall events.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE - Do not use, pour, spill, or store near heat or open flame.

IN CASE OF FIRE

Use water spray or fog, foam, dry chemical or carbon dioxide to extinguish fire.

DISCLAIMER

To the extent consistent with applicable law, seller (whether manufacturer, distributor, or other) makes no warranty express or implied, including the implied warranty of merchantability AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE regarding this product except the composition as set forth in the ingredient statement herein, and shall not be liable for LOST PROFITS, LOST PRODUCTION, LABOR COSTS, TRANSPORTATION CHARGES, OR ANY special, consequential, INCIDENTAL OR DELAY damages, the exclusive remedy being the replacement of the product. To the extent consistent with applicable law, buyer or user assumes all risk of possession, handling or use of this material when such use and/or handling is contrary to label instructions.

13370/119/R06/052317

SAFETY DATA SHEET

KOP-COAT

Revision Date 06-Feb-2017
Version 2.01

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Workhorse® Sapstain and Mold Control Product
Product code 13370

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Wood preservative
Restrictions on use No information available

1.3 Details of the supplier of the safety data sheet

Supplier Kop-Coat, Inc.
Protection Products
5137 Southwest Avenue
St. Louis, MO 63110
(314) 772-2200

1.4 Emergency telephone number

Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA
Chemtrec: 1-800-424-9300 USA

2. Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2

2.2 Label elements

Signal Word
Danger

Hazard Statements
Causes severe skin burns and eye damage
Suspected of damaging fertility or the unborn child

**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection/face protection
 Do not breathe dusts or mists
 Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 Immediately call a POISON CENTER or doctor
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards Hazards not otherwise classified (HNOC)

Not Applicable

2.4 Other information

Not Applicable

Unknown Acute Toxicity

< 1% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Substance

Not applicable

Mixture

Chemical Name	CAS-No	Weight %
Alkyl amine	Proprietary	5 - 10
Organic acid	Proprietary	5 - 10
Alkyl amine	Proprietary	1 - 5
Trialkyl nitrogen oxide compound	Proprietary	1 - 5
Trialkyl nitrogen oxide compound	Proprietary	1 - 5
Trialkyl nitrogen oxide compound	Proprietary	1 - 5
Nonylphenol ethoxylate	127087-87-0	1 - 5
Polypropylene glycol	25322-69-4	1 - 5
Propiconazole	60207-90-1	1 - 5
3-iodo-2-propynyl butyl carbamate	55406-53-6	1 - 5
Diiodomethyl-p-tolylsulfone	20018-09-1	< 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first-aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or poison control center immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
Inhalation	Move victim to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Keep victim warm and quiet.
Ingestion	Gently wipe or rinse the inside of the mouth with water. Never give fluids if the victim is unconscious or having convulsions. Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician There is no specific antidote for effects from overexposure to this material. Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical. Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire.

Unsuitable Extinguishing Media None known based on information supplied.

5.2 Special hazards arising from the substance or mixture

Special Hazard

Thermal decomposition can lead to release of irritating gases and vapors

Hazardous Combustion Products Possible formation of carbon oxides, nitrogen oxides, and hazardous organic compounds.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.3 Advice for firefighters

Evacuate personnel to safe areas. Thoroughly decontaminate all protective equipment after use. Use water spray to cool fire-exposed containers. Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation, especially in confined areas. Personal protection needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill. Stop leak if you can do it without risk. Keep people away from and upwind of spill/leak. Wear protective gloves/clothing and eye/face protection. Thoroughly decontaminate all protective equipment after use. .

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Methods for cleaning up	Clean contaminated surface thoroughly. Take up with sand, earth or other noncombustible absorbent material.

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling	Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Use according to package label instructions. Empty containers may retain product residue or vapor.
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Hygiene measures	Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Do not get in eyes, on skin, or on clothing.
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7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep from freezing.
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Materials to Avoid	No materials to be especially mentioned.
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8. Exposure controls/personal protection**8.1 Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	British Columbia	Alberta	Quebec	Ontario TWAEV
Organic acid	TWA: 5 mg/m ³ inhalable fraction and vapor	-	TWA: 5 mg/m ³ Adverse reproductive effect	TWA: 5 mg/m ³		TWA: 5 mg/m ³

8.2 Appropriate engineering controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Apply technical measures to comply with the occupational exposure limits.
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8.3 Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tightly fitting safety goggles.
Skin and body protection	Wear impervious gloves and/or clothing if needed to prevent contact with the material. Neoprene gloves. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Long sleeved clothing. Chemical resistant apron. Protective shoes or boots. Remove and wash contaminated clothing before re-use.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures	See section 7 for more information

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid	Color	Amber
Appearance	No information available		
Odor	amine-like	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	7.69	10% (as aqueous solution)
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point	> 94 °C / > 201 °F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity		No information available
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

9.2 Other information

Volatile organic compounds (VOC) content	0.004 lb/gal
Density	8.02 lb/gal

10. Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

None known based on information supplied.

10.5 Incompatible Materials

No materials to be especially mentioned.

10.6 Hazardous Decomposition Products

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

11. Toxicological information

11.1 Acute toxicity**Numerical measures of toxicity: Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

Unknown Acute Toxicity < 1% of the mixture consists of ingredient(s) of unknown toxicity

Oral LD50	2,104.00 mg/kg
Dermal LD50	24,753.00 mg/kg
LC50 (Dust/Mist)	25.80 mg/l

Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl amine	1220 mg/kg (Rat)	-	-
Organic acid	2043 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Alkyl amine	1520 mg/kg (rat)	-	-
Trialkyl nitrogen oxide compound	1000 mg/kg (Rat)	-	-
Trialkyl nitrogen oxide compound	846 mg/kg (Rat)	-	-
Trialkyl nitrogen oxide compound	846 mg/kg (Rat)	-	-
Nonylphenol ethoxylate 127087-87-0	1310 mg/kg (Rat)	-	-
Propiconazole 60207-90-1	-	-	= 1264 mg/m ³ (Rat) 4 h
3-iodo-2-propynyl butyl carbamate 55406-53-6	1100 mg/kg (Rat)	-	-
Diiodomethyl-p-tolylsulfone 20018-09-1	> 5000 mg/kg (rat)	> 20,000 mg/kg (rabbit)	0.96 mg/L (rat) 4-hr, aerosol

11.2 Information on toxicological effects**Skin corrosion/irritation**Product Information

• May cause severe irritation and/or skin damage depending upon extent of exposure; signs and symptoms may include blistering, burns or possible scarring.

Component Information

• No information available

Serious eye damage/eye irritationProduct Information

- Risk of serious damage to eyes

Component Information

- No information available

Respiratory or skin sensitizationProduct Information

- No information available

Component Information

- No information available

Germ cell mutagenicityProduct Information

- No information available

Component Information

- No information available

CarcinogenicityProduct Information

- No information available

Component Information

- No information available

Reproductive toxicityProduct Information

- No information available

Component Information

- This organic acid has been found to cause developmental toxicity in animal studies. The American Conference of Governmental Industrial Hygienist's (ACGIH) airborne Threshold Limit Value (TLV)-Time Weighted Average (TWA) of 5 mg/m³ (inhalable fraction and vapor) for this organic acid is set to minimize the potential risks of developmental toxicity in exposed workers. Airborne and urine levels of this organic acid were evaluated in occupational workers in four Finnish sawmills using a wood preservative that contained 25% of the organic acid. Breathing zone air samples were all well below the TLV, with the highest level of 1.3 mg/m³ reported for a worker adjacent to the dip tank. Urine levels correlated with the dose associated with the airborne levels, indicating dermal absorption is not a significant route of exposure to this organic acid.

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Other adverse effectsProduct Information

- No information available

Component Information

- No information available

Aspiration hazardProduct Information

- No information available

Component Information

- No information available

12. Ecological information

12.1 Toxicity**Ecotoxicity**

No information available

< 1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Alkyl amine	-	LC50: 96 h Brachydanio rerio 0.71 - 1 mg/L static	-
Organic acid	EC50: 72 h Desmodesmus subspicatus 61 mg/L EC50: 96 h Desmodesmus subspicatus 41 mg/L	LC50: 96 h Pimephales promelas 70 mg/L	EC50: 48 h Daphnia magna 85.4 mg/L
Trialkyl nitrogen oxide compound	EC50: 48 hr (Algae) 0.11 mg/L	LC50: 96 hr (zebra fish) 10-100 mg/L	EC50: 48 hr (daphnia magna water flea) 4.4 mg/L
Trialkyl nitrogen oxide compound	EC50: 48 hr (Algae) 0.11 mg/L	LC50: 96 hr (zebra fish) 10-100 mg/L	EC50: 48 hr (daphnia magna water flea) 4.4 mg/L
Trialkyl nitrogen oxide compound	EC50: 48 hr (Algae) 0.11 mg/L	LC50: 96 hr (zebra fish) 10-100 mg/L	EC50: 48 hr (daphnia magna water flea) 4.4 mg/L
Nonylphenol ethoxylate 127087-87-0	-	LC50: 96-hr Pimephales promelas (fathead minnow) 1.2-9.3 mg/L	-
Propiconazole 60207-90-1	EC50: 72 h Algae - Pseudokirchneriella subcapitata 9.0 mg/L	LC50: 96-hr Trout 5.3 mg/L; LC50: 96 h Oncorhynchus mykiss 4.4 mg/L	EC50: 48 h Daphnia magna 10.2 mg/L
3-iodo-2-propynyl butyl carbamate 55406-53-6	EC50: 72 h Algae - Scenedesmus subspicatus 0.022 mg/L	LC50: 96 h Lepomis macrochirus 0.14 - 0.32 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 0.049 - 0.079 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 0.05 - 0.089 mg/L LC50: 96 h Pimephales promelas 0.18 - 0.23 mg/L flow-through	EC50: 48 h Daphnia magna 0.16 mg/L

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Discharge into the environment must be avoided

Chemical Name	log Pow
Alkyl amine	5.47
Organic acid	2.7

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1 Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport Information

DOT

Proper shipping name

UN1760, Corrosive liquids, n.o.s. (alkyl amines), 8, PGII, Marine pollutant

MEX

no data available

IMDG

Proper shipping name UN1760, Corrosive liquid, n.o.s. (alkyl amines), 8, PGII
Marine pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
Description (alkyl amines)

IATA

Proper shipping name UN1760, Corrosive liquid, n.o.s. (alkyl amines), 8, PGII

15. Regulatory information

15.1 International Inventories

TSCA	Complies
DSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-
NZIoC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

15.2 U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values %
Propiconazole 60207-90-1	1.0
3-iodo-2-propynyl butyl carbamate 55406-53-6	1.0

15.3 Pesticide Information**U.S. EPA Pesticide Information**

EPA Pesticide Registration Number 92617-17

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

DANGER. CORROSIVE. Causes skin burns. Causes irreversible eye damage. Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed.

15.4 U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
1,4-DIOXANE - 123-91-1	Carcinogen

16. Other information

NFPA	Health Hazard 3	Flammability 1	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 3*	Flammability 1	Physical Hazard 0	Personal protection X

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

Ceiling (C)

DOT (Department of Transportation)

EPA (Environmental Protection Agency)

IARC (International Agency for Research on Cancer)

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

NIOSH (National Institute for Occupational Safety and Health)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL (Permissible Exposure Limit)

Reportable Quantity (RQ)

Skin designation (S*)

STEL (Short Term Exposure Limit)

TLV® (Threshold Limit Value)

TWA (time-weighted average)

Revision Date 06-Feb-2017

Revision Note

No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet